



## Herbal Formulation (Tooth Paste) as Anti-Precancerous Properties

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Received date: February 01, 2015, Accepted date: February 02, 2015, Published date: February 02, 2015

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### Introduction

Toothpaste can be employed as a vehicle to improve and prevent oral health of individuals and population. Different modalities of treatment are offered for different dental and oral diseases, but the major drawback of these conventional drug therapies are side effects associated with their use. This has led to the interest in the discovery of novel anti-infective natural compounds. The formulation is based on polyherbal extracts which display no side effects on the oral cavity as well as other body organs. To confirm the performance of the toothpaste formulation, the technology (Oral Sure, Orange Herbs Pvt Ltd, India) was evaluated in vivo on 20 patients (oral leukoplakia, oral lichen planus, submucous fibrosis and erythroplakia). Valid diagnostic tests were evaluated for diagnosing oral pre-cancerous lesions. Pain control and lesion healing were the two main clinical variables for evaluating improvement of oral leukoplakia, oral lichen planus and oral submucous fibrosis. But, in the case of oral submucous fibrosis, changes in mouth opening were also evaluated. The final outcome was always confirmed by clinical examination. Clinical and histopathological examinations were conducted beside the collection of serum and salivary samples taken prior to treatment with the

toothpaste formulation. Serum and salivary biomarkers of oral cancer were analyzed. One week after the clinical improvement of disease, clinical and histopathological examinations were repeated on serum and saliva samples. It showed that pain scores and lesion size in oral leukoplakia, submucous fibrosis and lichen planus improved significantly [1]. In the case of submucous fibrosis, mouth opening recovered significantly following twice a day brushing regimen using the formulation [1]. So, this tooth paste might be help in prevention measure of oral health.

### Conflict of interest

Author is inventor of this formulation.

### Reference

1. Rai B (2014) Anticancer property of herbal tooth paste formulation. 17 th. Conference. Discovery, Utilization , and control of Bioactive Components and Functional Foods. University of San Diego, CA, USA.